

REMARKS

The Claim Amendment and Rejections Under 35 USC § 112

Claim 1 and 7 are amended to further clarify them.

Claims 23 and 24 are newly added and find support in the specification in figures 1 and 3.

Claim Rejections under 35 USC § 103

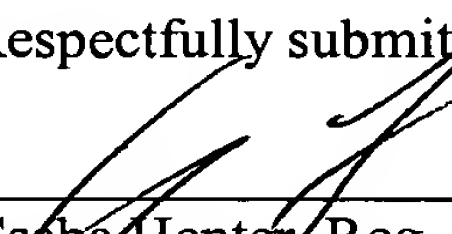
Claims 1, 3, 16 and 18 were rejected as allegedly unpatentable over Kremers.

The Office Action alleges that the reference in fig. 2 demonstrates a tube encased with a cooling jacket up to its orifice. Applicants respectfully disagree. The tube in figure 2 is not encased up to its orifice. This is especially clear since the tube (22) clearly continues past the cooling jacket (25), where it makes a substantially 90-degree turn before it terminates at its orifice (see "HF aq."). Nothing in the reference teaches or suggests that the cooling jacket is up to the orifice of the tube. Nevertheless, to further clarify the claims, the "up to" claim terminology is amended to use the term "to," so it is clearer that the claims are directed to embodiments where the coolant jacket encases the pipe to its orifice as illustrated in the figures, i.e., where no part of the pipe extends beyond the coolant jacket.

Reconsideration is respectfully requested.

The Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,



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Attorney Docket No.: SGW-110